

Lab Farm 2

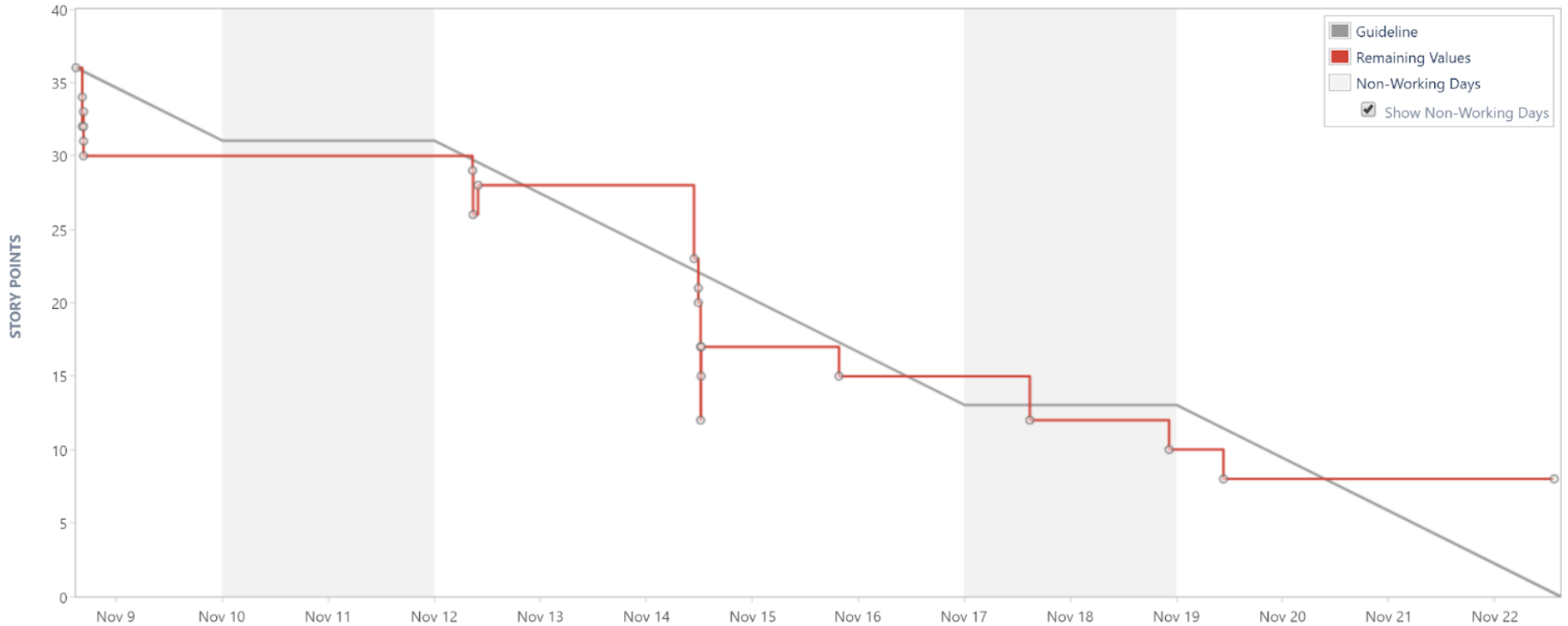


Inias Somers
Seppe De Beule
Sam Van Bogaert
Raymond Mohammad
Gilian Sterckx
Kevin Van de Vyver

Taakverdeling

- | | | |
|----------------------|----------------------|-------------------|
| • Seppe De Beule | ⇒ Plant Conditioning | ⇒ Web Dashboard |
| • Sam Van Bogaert | ⇒ Plant Conditioning | ⇒ Sensoren |
| • Inias Somers | ⇒ Plant Robot | ⇒ PCB |
| • Kevin Van de Vyver | ⇒ Plant Robot | ⇒ Constructie |
| • Raymond Mohammad | ⇒ Project Manager | ⇒ API |
| • Gilian Sterckx | ⇒ Camera | ⇒ Beeldherkenning |

Burndown chart



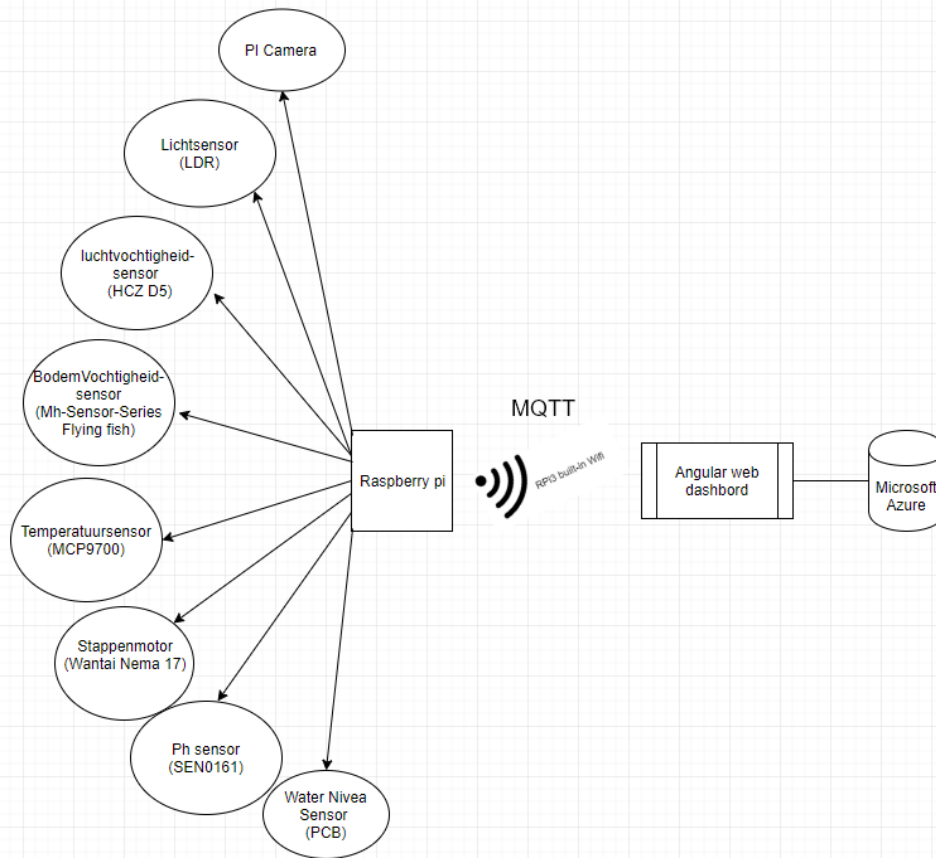
Afgewerkte stories

Completed Issues

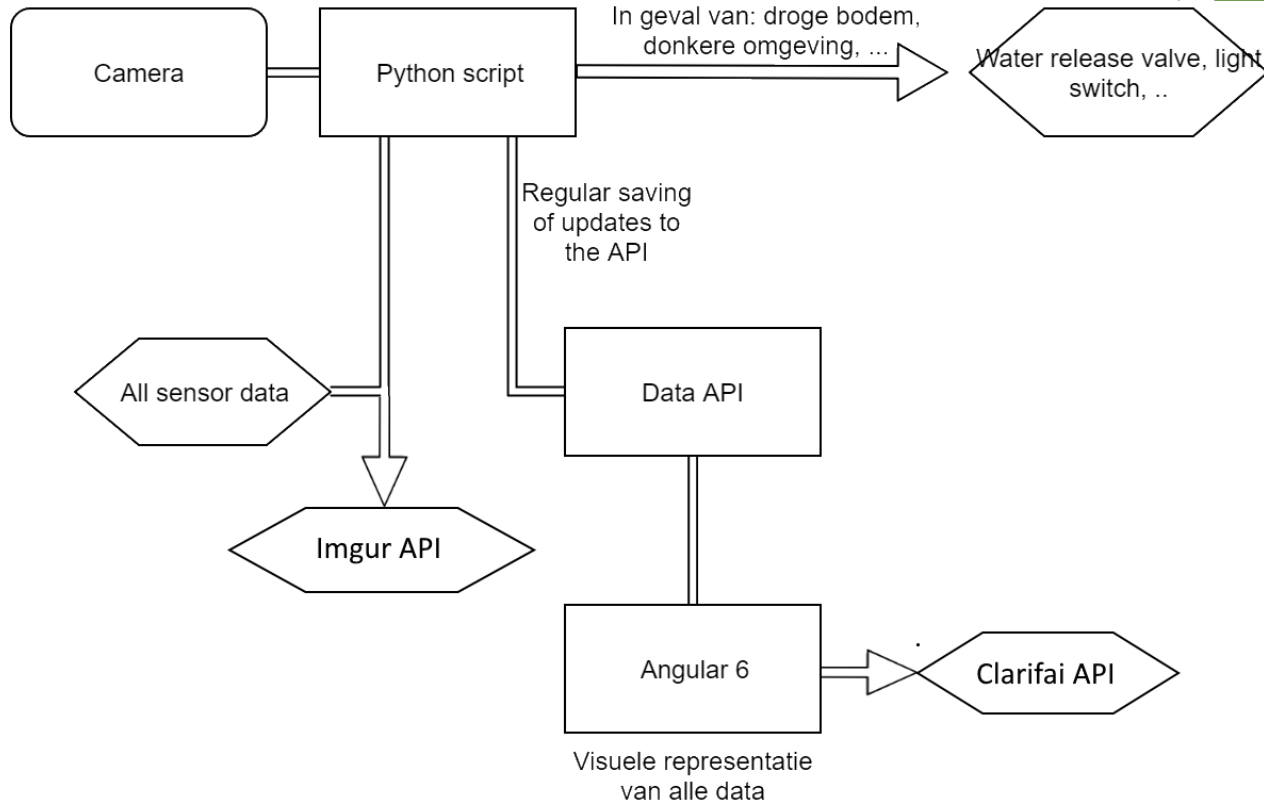
[View in Issue navigator](#)

Key	Summary	Issue Type	Priority	Status	Story Points (36)
IOT18LF2-2	As a user I want to know the temperature around the plant	Story	Medium	DONE	2
IOT18LF2-11 *	As a user I want to know the pH value of the soil of the plant	Story	Medium	DONE	2
IOT18LF2-16	As a user I want to know if my plant is growing healthy or not (image recognition)	Story	Medium	DONE	5
IOT18LF2-25	As a user I want to know the temperature of the soil of the plant	Story	Medium	DONE	2
IOT18LF2-30	As a user I want an easy overview of the most important data	Story	Medium	DONE	3
IOT18LF2-40 *	As a user I want to know how the temperature sensor works	Story	Medium	DONE	1
IOT18LF2-41	As a user I want to know how the humidity sensor works	Story	Medium	DONE	1
IOT18LF2-42	As a user I want to know how the luminosity sensor works	Story	Medium	DONE	1
IOT18LF2-43	As a user I want to know how the pH sensor works	Story	Medium	DONE	1
IOT18LF2-46	As a user I want to know if the dashboard connects properly	Story	Medium	DONE	1
IOT18LF2-65	As developer i want to create the first electrical schematic	Story	Medium	DONE	2
IOT18LF2-78	As a developer, I want to have the dashboard connected to the API	Story	Medium	DONE	3
IOT18LF2-79	as developer i want to design how to charge the backup battery	Story	Medium	DONE	2
IOT18LF2-80	As a developer, I want to design the gears to move the watersupply in 3D	Story	Medium	DONE	5
IOT18LF2-83 *	As developer i want to calculate the power requirments	Story	Medium	DONE	3
IOT18LF2-84 *	As developer i want to add all components in multsim/ultiboard	Story	Medium	DONE	2

Algemene architectuur



Software diagram



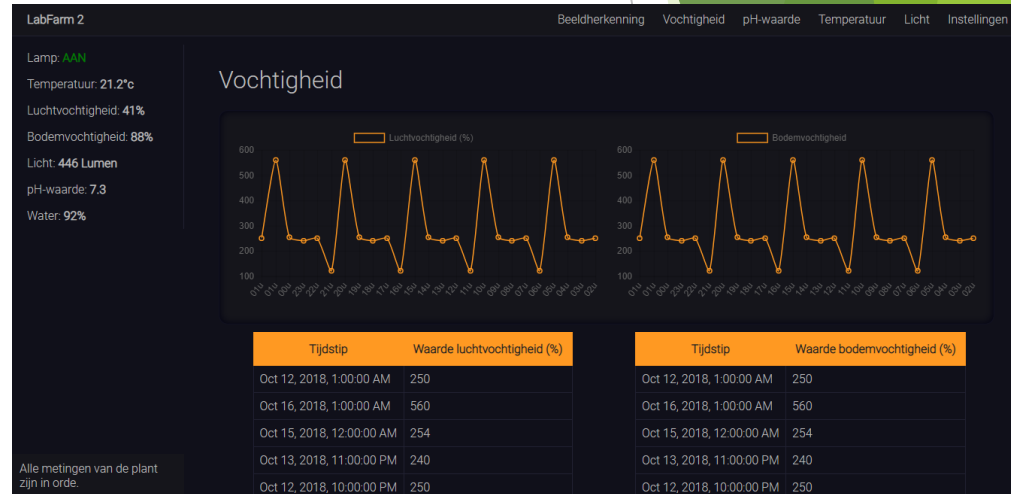
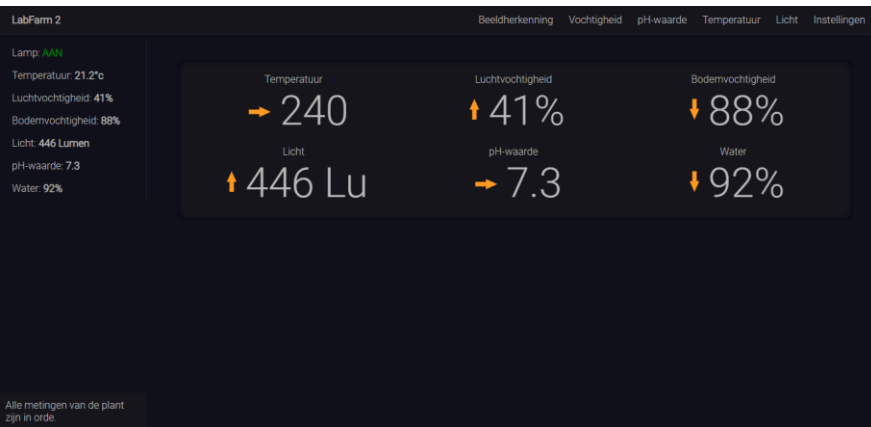
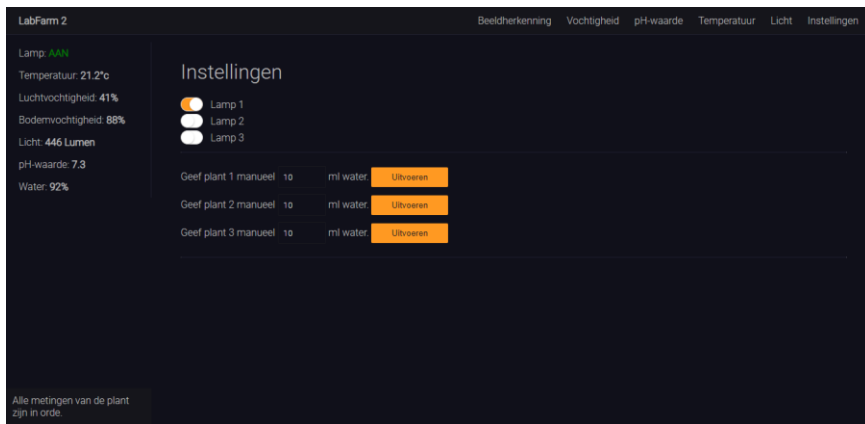
Sensoren

↓ Alle Sensoren werken behalve waterniveau sensor

↓ Schaal ontbreekt bij:

- ← licht sensor
- ← pH sensor
- ← bodemvochtigheid sensor

Dashboard

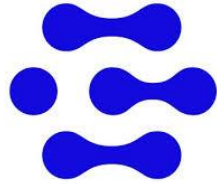


API verbonden
Grafieken geïmplementeerd
Notificaties links onderaan
Homepage gemaakt met duidelijk overzicht

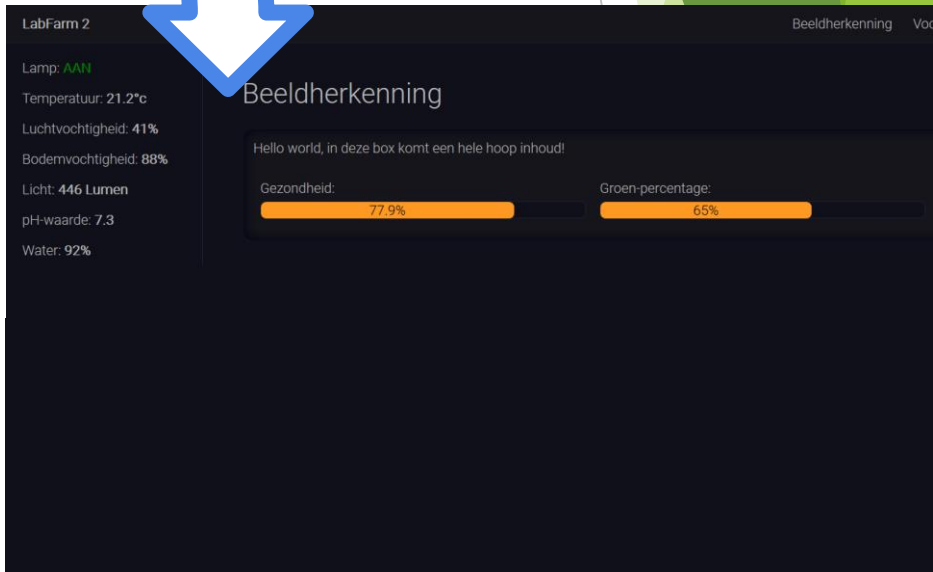
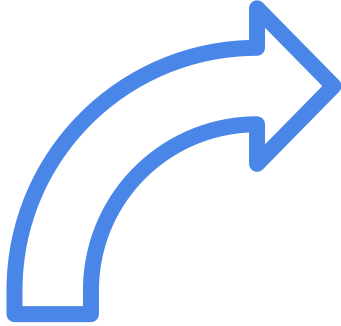
API



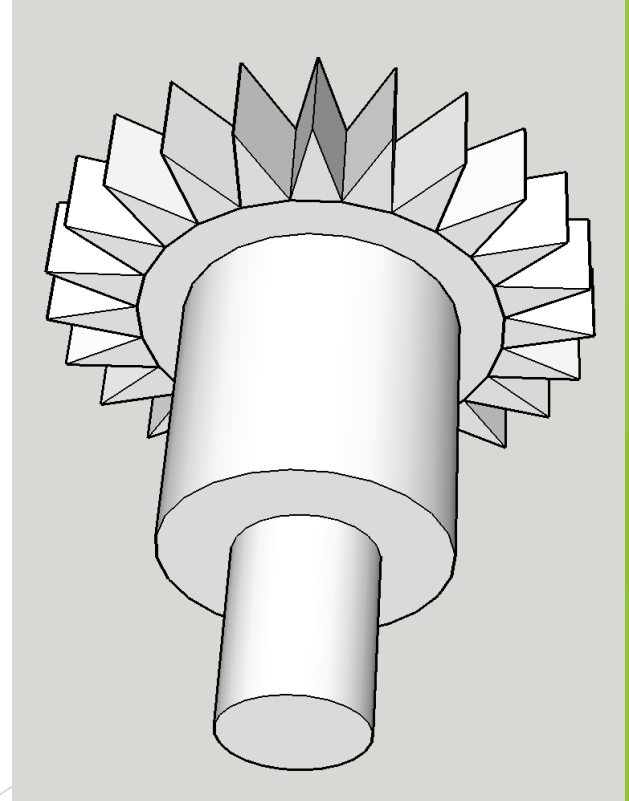
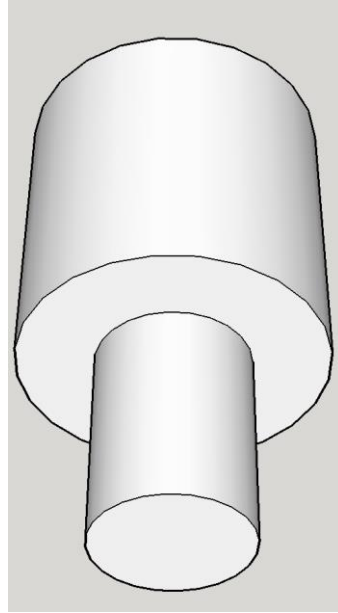
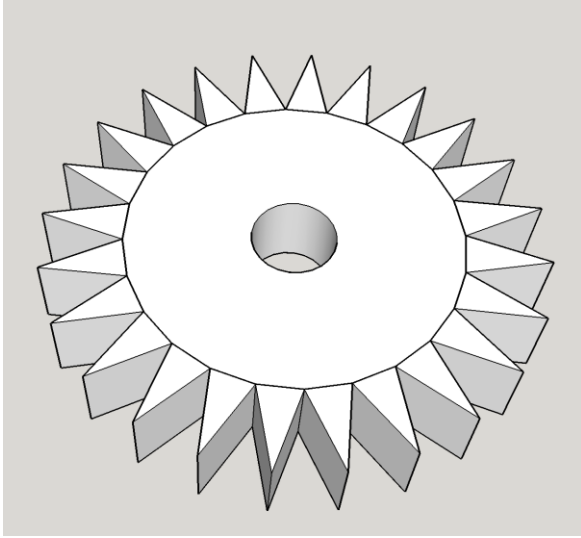
Beeldherkenning



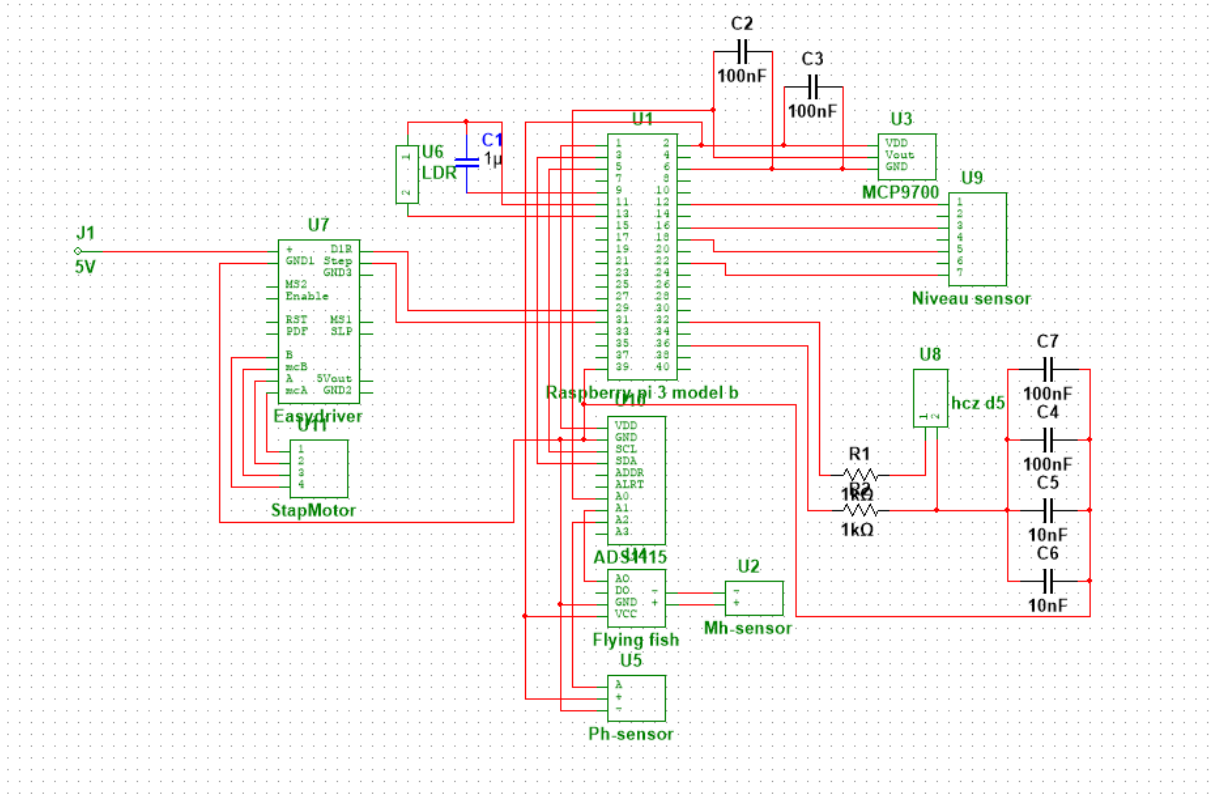
clarifai



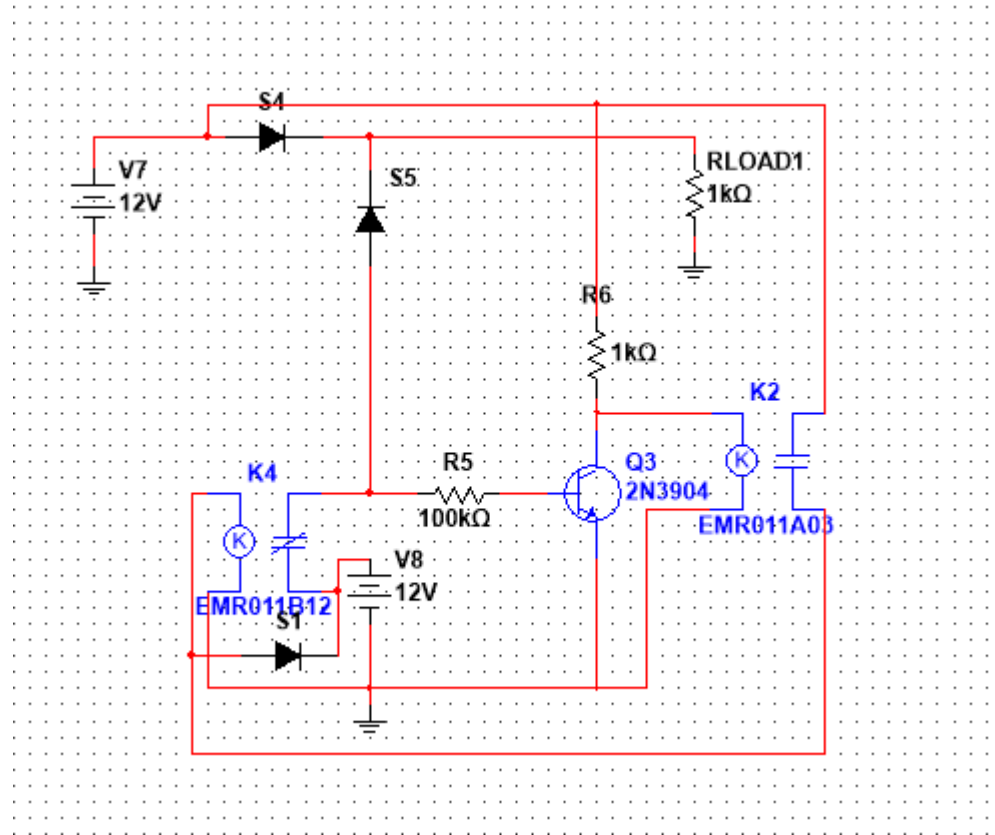
Constructie stappenmotor



Elektrische schema








































Backup batterij



Planning

- Stappenmotor werkend krijgen
- Constructie afwerken (tandwielen + plaatje + stappenmotor)
- Opslaan en ophalen van actuele sensor data
- Finale Elektrische schema
- Eerste PCB design
- Power requirements

Planning Jira

 +1 ... Linked pages		
 ↑	IOT18LF2-85 As a developer i want to make the final elektrische schema	PCB  3
 ↑	IOT18LF2-34 As a user I want a finished tested version of the PCB design	PCB  5
 ↑	IOT18LF2-49 As a user I want the components to have the correct power levels	Voeding  2
 ↑	IOT18LF2-48 As a user I want the controller to be powered by the correct power supply	Voeding  2
 ↑	IOT18LF2-87 As a developer, i want to assemble the gears, the plate and the steppermotor	Constructie  5
 ↑	IOT18LF2-77 As a developer, I want to test the steppermotor	Testen  2
 ↑	IOT18LF2-10 As a user I want to know when I need to refill the water & nutrition reservoir of the plant	Sensoren  2
 ↑	IOT18LF2-44 As a user I want to know how the water level sensor works	Testen  1
 ↑	IOT18LF2-86 As a user, I want a connection between the sensors and the dashboard so I can view the sensordata	API  3
 ↑	IOT18LF2-53 As a developer, I want to store all sensor data	API  5
 ↑	IOT18LF2-52 As a developer, I want to retrieve all sensor history data	API  2
 ↑	IOT18LF2-36 As a user I want daily photos of my plant	Beeldherkenning  2
 ↑	IOT18LF2-56 As a developer I want the photos to be stored in the cloud to save storage	Beeldherkenning  2
 ↑	IOT18LF2-35 As a user I want to see previous photos of my plant	Beeldherkenning  2
 ↑	IOT18LF2-33 As a user I want to be able to be able to see the progress the plant has made	Dashboard  2
 ↑	IOT18LF2-3 As a user I want to receive a notification if a variable is too low	Dashboard  2
 ↑	IOT18LF2-4 As a user I want to receive a notification if a variable is too high	Dashboard  2
 ↑	IOT18LF2-32 As a user I want to be able to toggle the lights	Dashboard  2
+ Create issue		